

CRITICAL CARE NURSING HEMODYNAMICS

Cardiac Output

↳ volume of blood pumped by the heart in one minute (in L)

Stroke Volume

↳ volume ejected with each heartbeat

Systemic vascular resistance

↳ resistance to blood flow returning to the left ventricle

Preload = volume in the ventricle at the end of diastole

Cardiac Index

↳ Cardiac output adjusted for the patient's body surface area (BSA)

Stroke volume index

↳ Stroke volume adjusted for BSA

Pulmonary vascular resistance

↳ resistance to blood flow returning to the right ventricle

Afterload = pressure the heart must eject blood against during systole (contraction)

Invasive Pressure Monitoring

Arterial BP

Indications: acute hypertension + hypotension, resp. failure, shock, neuro injury, or acute sepsis

Measurements: systolic, diastolic + Mean arterial pressure

Nursing: ECG + pressure tracings for diminished arterial BP which is an urgent situation

Arterial Pressure-Based Cardiac Output (APCO)

Indications: to assess a patient's ability to respond to fluids by increasing stroke volume

Measurements: continuous cardiac output (CCO), stroke vol., continuous cardiac index (CCI = SVI)

Contraindications: children and those on INOP therapy

Pulmonary Artery Flow-Directed Catheter

Indications: cardiogenic shock, MI w/ complications, severe chronic HF, Dx of pulm. HTN

Measurements: PAD pressure + PAWP

Central Venous or Right Atrial Pressure (CVP)

Measurements: Right ventricular preload

Interpretation: ↑ CVP = R ventricular failure or volume overload
↓ CVP = hypovolemia

Waveforms:
 - atrial contraction
 - tricuspid bulge into R atrium
 - atrial filling



Cardiac Output

HR

SV

Preload

Contractility

Afterload



diastolic filling



Force of contraction



Ventricular ejection

Venous O₂ Saturation

Measurements: O₂ saturation in venous blood (ScvO₂), mixed venous O₂ (SvO₂)

Interpretation: ↑ ScvO₂ + SvO₂ (80-95%)

= ↑ O₂ supply + ↓ O₂ demand
 - more O₂ than needed = ↑ ability to use O₂ - hypothermia

Normal ScvO₂ or SvO₂ (60-80%)

= balanced O₂ supply + demand

↓ ScvO₂ + SvO₂ (<60%)

= ↓ Rtg. + SvO₂ + CO, ↑ O₂ demand
 - anemia or bleed - cardiogenic shock
 - hypoxemia from ↓ O₂ supply

Dialysis Tech Study Guide

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